

**Nu-Metrics Traffic Analyzer Study  
Computer Generated Summary Report  
City: City of Fairfax  
Street: Railroad Ave # 2 Red**

A study of vehicle traffic was conducted with HI-STAR unit number 1039. The study was done in the South bound lane on Railroad Ave using counter # 2 Red as shown on attached drawing. The counter was placed 50 ft. south of the speed hump. The study began on 09/16/2003 at 02:00 and concluded on 09/18/2003 at 02:00 PM, lasting a total of 48 hours. Data was recorded in 60 minute time periods. The total recorded volume of traffic showed 1,047 vehicles passed through the location with a peak volume of 51 on 09/16/2003 at 05:00 PM and a minimum volume of 0 on 09/18/2003 at 01:00 AM. The AADT Count for this study was

**SPEED**

Chart 1 lists the values of the speed bins and the total traffic volume for each bin.

<b>Chart 1</b>							
0 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 >
0	80	280	396	148	18	7	9

At least half of the vehicles were traveling in the 20 - 24 mph range or a lower speed. The average speed for all classified vehicles was 21 mph with 19.4 percent exceeding the posted speed of 25 mph. The HI-STAR found 1.71 percent of the total vehicles were traveling in excess of 35 mph and 0.9 percent were traveling in excess of 40 mph. The mode speed for this traffic study was 20 mph and the 85th percentile was 26.40 mph.

**CLASSIFICATION**

Chart 2 lists the values of the eight classification bins and the total traffic volume accumulated for each bin.

<b>Chart 2</b>							
0 to 20	21 to 27	28 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 >
904	23	10	1	0	0	0	0

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 927 which represents 98.80 percent of the total classified vehicles. The number of Small Trucks in the study was 10 which represents 1.10 percent of the total classified vehicles. The number of Trucks/Buses in the study was 1 which represents 0.10 percent of the total classified vehicles. The number of Tractor Trailers in the study was 0 which represents 0.00 percent of the total classified vehicles.

**HEADWAY**

During the peak time period, on 09/16/2003 at 05:00 PM the average headway between the vehicles was 69.23 seconds. The slowest traffic period was on 09/18/2003 at 01:00 AM. During this slowest period, the average headway was 3600.0 seconds.

### **WEATHER**

The roadway surface temperature over the period of the study varied between 66 and 113 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 100.00 percent of the time.